

Lot 2: Bill of Quantities : Oshana, Ohangwena and Oskikoto Regions

Item No	Payment clause	Description	Unit	Quantity	Rate (N\$)	Amount (N\$)
1		SECTION 1: PRELIMINARY AND GENERAL				
1.1		FIXED CHARGE ITEMS				
1.1.1		Contractual Requirements: Site Establishment by Contractor	sum			
1.1.2		Establish Contractors camp	sum			
1.1.3		Remove contractor's camp and Engineer's site Establishment on completion of Contract	sum			
1.2		TIME - RELATED ITEMS				
1.2.1		Contractual Requirements: Facilities for Contractor for duration of construction period except where otherwise specified	sum			
Total : Section 1						
2		SECTION 2: PROVISIONAL SUMS				
2.1		VARIATIONS				
2.1.1		Contingencies: Contingency sum all inclusive to be used for work not covered by the rates in the BoQ. To be deleted in whole or part if not required	sum			100 000.00
2.1.2		Provisional sum to cover costs of materials & labour (day works) ordered by the Engineer To be deleted in whole or part if not required	sum			30 000.00
Total: Section 2						130 000.00
3		SECTION 3: EARTH WORKS(PIPELINE TRENCHES)				
3.1		SITE CLEARANCE				
3.1.1		Clear and grub pipeline routes and remove rubble	m	5000		

3.1.2		Clear areas at new trough sites and remove rubble	No	6		
3.2	8.3.2	EXCAVATION				
3.2.1	PS 6.2 PSDB 4.1.2	Excavate in all materials for trenches, backfill, compact and dispose of surplus/unsuitable material to spoil within a free haul distance of 1.0 km for trench sizes as described in clause PS 6.2:				
3.2.1.1		HAND EXCAVATIONS				
3.2.1.2		For 63 mm ϕ mm uPVC class 6 pipes	m	5000		
3.2.1.3		For 63 mm ϕ HDPE class 6 pipes	m	200		
3.2.1.4		For 50 mm ϕ HDPE class 6 pipes	m	30		
3.2.1.5		For 25 mm ϕ HDPE class 6 pipes	m	1		Rate only
Total : Section 3						
4	SANS 1200 L	SECTION 4 : MEDIUM PRESSURE PIPELINES				
4.1	8.2.1	PIPELINES CLASS 6				
4.1.1		Supply and delivery of 63 mm ϕ uPVC class 6 pipe	m	5000		
4.1.2		Supply and delivery of 63 mm ϕ HDPE class 6 pipe	m	200		
4.1.3		Supply and delivery of 50 mm ϕ HDPE class 6 pipe	m	30		
4.1.4		Supply and delivery of 25 mm ϕ HDPE class 6 pipe	m	1		Rate only
4.1.2	PSL 5.1.2	Inspect, store temporarily, handle, lay joint incl. couplings, and cut pipes to length where required, bed and disinfect of Class 6 Pipes				
		For 63 mm ϕ uPVC class 6 pipe	m	5000		
		For 63mm ϕ HDPE class 6 pipes	m	200		
		For 50 mm ϕ HDPE class 6 pipes	m	30		
		For 25 mm ϕ HDPE class 6 pipes	m	1		Rate only

4.2		TEST AND DISINFECT PIPES				
4.2.1		For 63 mm ϕ uPVC class 6 pipe	m	5000		
4.2.2		For 63 mm ϕ HDPE class 6 pipes	m	200		
4.2.3		For 50 mm ϕ HDPE class 6 pipes	m	30		
4.2.4		For 25 mm ϕ HDPE class 6 pipes	m	1		Rate only
Total : Section 4						
5	SANS 1200 LB	SECTION 5: BEDDING (PIPELINES)				
5.1	8.2.1 PSLB 1.2 PSLB	BEDDING Provision of bedding available from trench excavations with a free haul distance of 1,0 km				
5.1.1		Selected granular material (provisional)	m ³	40		
5.1.2	8.2.2.1 PSLB 1.2	Selected fill material Imported from other necessary excavations within a free haul distance of 5,0 km	m ³	1		Rate only
Total : Section 5						
6		SECTION 6: SUPPLY AND CONSTRUCT WATER POINT INSTALLATIONS AND RELATED WORKS				
6.1		TANK STAND				
6.1.1		Supply and Construct Steel Tank Stand for 10000 L tank complete with concrete foundations as shown on drawings and as specified in the Project Specifications..	No	5		
6.2		POLY ETHYLENE TANK.				
6.2.1		Supply 10000L Poly Ethylene tank as specified.	No	5		
6.2.2		Install 10000 L Poly Ethylene tank on tank stand complete with pipe work and accessories as shown on drawings and as specified in the Project Specifications.	No	5		
6.3		TROUGH CONCRETE APRON				
6.3.1		Construct concrete aprons complete as shown on drawings and as specified in the Project Specifications.	No	6		
6.4		WATER TROUGH				
6.4.1		Supply 2.5 m Poly Ethylene troughs as specified	No	12		
6.4.2		Supply steel support frames as specified		12		

6.4.3		Install troughs on concrete aprons complete with pipe work and pipe fittings as shown on drawings and as specified in the Project Specifications.	No	12												
6.5		AIR VALVE														
6.5.1		Supply and install air valve complete with all accessories as specified.	No	3												
6.5.2		Manufacture , supply and install steel cage for air valve complete with concrete foundation as specified.	No	3												
					Total : Section 6											
7		SECTION 7: SUPPLY AND CONSTRUCT A TYPICAL BOREHOLE INSTALLATION														
7.1		SOLAR PUMP INSTALLATION														
7.1.1	GA Site	Supply and install a solar submersible pump with 40 mm ϕ HDPE class 10 riser pipe, 25 mm ϕ HDPE class 6 pipe for depth measuring, concrete mono block complete with base plate, pipe work with all installation accessories as specified for the following pump applications and GA														
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Delivery (m³/h)</th> <th style="width: 25%;">Total head (m)</th> <th style="width: 25%;">Pump Install depth (m)</th> <th style="width: 25%;"></th> </tr> </thead> <tbody> <tr> <td>Elago</td> <td>2</td> <td>15</td> <td>No</td> </tr> <tr> <td>Ekulu Nanzi</td> <td>2</td> <td>12</td> <td>No</td> </tr> </tbody> </table>	Delivery (m ³ /h)	Total head (m)	Pump Install depth (m)		Elago	2	15	No	Ekulu Nanzi	2	12	No		
Delivery (m ³ /h)	Total head (m)	Pump Install depth (m)														
Elago	2	15	No													
Ekulu Nanzi	2	12	No													
7.2		SOLAR MODULES AND SOLAR MOUNTING FRAME														
7.2.1		Supply and install a solar module mounting frame complete with solar modules , weather resistant switch box, cables , cable ducting, 5 meter cable with 15 amp three pin plug and accessories for each solar pump installation	No	2												
7.3		SOLAR MODULES SUPPORT STRUCTURE														
7.3.1		Construct solar module support structure complete with concrete foundations as specified	No	2												
7.4		SCHEME NAME PLATE														
7.4.1		Supply and install scheme name plate as specified	No	2												
					Total : Section 7											

8		SECTION 8: CONSTRUCT CIVIL WORKS (CONCRETE RESERVOIR, ELEPHANT WALL & FENCING				
8.1		CONCRETE RESERVOIR				
8.1.1		Construct + - 45 m ³ capacity concrete reservoir complete with pipe work as shown on drawings and as specified in the Project Specifications	No	1		Rate only
8.2		5 M RADIUS ELEPHANT WALL				
8.2.1		Construct stone protection wall as shown on drawings and as specified in the Project Specifications	No	2		
8.3		6 M RADIUS ELEPHANT WALL				
8.3.1		Construct stone protection wall as shown on drawings and as specified in the Project Specifications	No	1		Rate only
8.4		STONE FILL				
8.4.1		Construct stone fill around water infrastructure for elephant protection as ordered by the engineer.	m ²	1		Rate only
8.5		FENCING				
8.5.1		Supply and construct 1.2 m high stock proof fencing as shown on the drawings and as specified in the Project Specifications	m	1		Rate only
8.5.2		Supply and install 1200 mm gate with closer as shown on the drawings and as specified in the Project Specifications	No	1		Rate only
8.6		TAP STAND				
8.6.1		Construct tap stand for human consumption as specified	No	1		Rate only
8.7		HAND DUG WELL				
8.7.1		Excavate in all soil materials for a hand dug well as shown on the sketches and as specified in the Project Specifications	No	1		
8.7.2		Construct a brick retaining wall as shown on the sketch and as specified in the Project Specifications	No	1		
8.7.3		Construct a wooden platform as shown on the sketch and as specified in the Project Specifications	No	1		
8.7.4		Supply a 3 meter aluminum ladder as specified	No	1		
8.7.5		Manufacture and supply oil pan as shown on the sketch and as specified	No	1		
Total : Section 8						

9		SECTION 9: BORE HOLE TEST PUMP (pump installation depth 100 m max)			
9.1		Install test pump complete with riser pipe and accessories.	No	1	Rate only
9.2		Conduct 4 hours continuous pumping at prescribe rate and measure and record bore hole water levels every 15 minutes	Hr	4	Rate only
9.3		Remove test pump complete with riser pipe and accessories	No	1	Rate only
Total : Section 9					

SUMMARY TO SCHEDULE OF QUANTITIES

LOT 2: OSHANA, OHANGWENA AND OSHIKOTO REGION

SECTION	DESCRIPTION	AMOUNT [N\$]
1	Preliminary and General	
2	Provisional Sums	130 000.000
3	Earthworks (Pipe Trenches)	
4	Medium Pressure Pipe lines	
5	Bedding (Pipelines)	
6	Supply and construct water point installations and related works	
7	Supply and construct a typical borehole installation	
8	Construct Civil works	
9	Borehole test pump	
TOTAL AMOUNT N\$		

Note: All prices in the Schedule exclude VAT but include Import Duties if applicable.

Amount in Words: